



SSSSSSSS	HH	HH	000000	MM	MM	SSSSSSSS	GGGGGGGG	UU	UU	TTTTTTTTTT	LL
SSSSSSSS	HH	HH	000000	MM	MM	SSSSSSSS	GGGGGGGG	UU	UU	TTTTTTTTTT	LL
SS	HH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SS	HH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SS	HH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SS	HH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SSSSSS	HHHHHHHHHHHH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SSSSSS	HHHHHHHHHHHH	HH	00	00	MM	MM	GG	UU	UU	TT	LL
SS	HH	HH	00	00	MM	MM	SS	GG	GGGGGG	UU	UU
SS	HH	HH	00	00	MM	MM	SS	GG	GGGGGG	UU	UU
SS	HH	HH	00	00	MM	MM	SS	GG	GG	UU	UU
SS	HH	HH	00	00	MM	MM	SS	GG	GG	UU	UU
SS	HH	HH	00	00	MM	MM	GG	GG	GG	UU	UU
SSSSSSSS	HH	HH	000000	MM	MM	SSSSSSSS	GGGGGG	UUUUUUUUUU	TT	LLLLLLLL	....
SSSSSSSS	HH	HH	000000	MM	MM	SSSSSSSS	GGGGGG	UUUUUUUUUU	TT	LLLLLLLL	....

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
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LLLLLLLL	IIIIII	SSSSSSSS

(2) 62  
(3) 140  
(4) 237

DECLARATIONS  
SHOW\$PRINT\_MSG  
SHOW\_PRINT\_LINE

- PRINT MESSAGE ROUTINE  
- PRINT LINE ROUTINE

0000 1 :TITLE SHOW\$MSG\_UTIL - MESSAGE PRINTING UTILITIES  
0000 2 :IDENT 'V04-000'  
0000 3 :  
0000 4 :  
0000 5 :\*\*\*\*\*  
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0000 27 :  
0000 28 :  
0000 29 :\*\*  
0000 30 :FACILITY: SHOW COMMAND, MESSAGE UTILITY ROUTINES  
0000 31 :  
0000 32 :ABSTRACT:  
0000 33 :  
0000 34 : This module contains all message formatting and printing utilities  
0000 35 : for the SHOW command  
0000 36 :  
0000 37 :ENVIRONMENT:  
0000 38 :  
0000 39 : AUTHOR: BEATRICE U.WALTHER, CREATION DATE: 10-OCT-1977  
0000 40 :  
0000 41 :MODIFIED BY:  
0000 42 :  
0000 43 : V03-002 GAS0100 Gerry Smith 11-Jan-1983  
0000 44 : Change SHOW\$PRINT\_LINE to SHOW\_PRINT\_LINE.  
0000 45 :  
0000 46 : V03-001 GAS0065 Gerry Smith 29-Mar-1982  
0000 47 : If an error occurs during open or write to SYSS\$OUTPUT,  
0000 48 : signal the error and stop.  
0000 49 :  
0000 50 : : VERSION  
0000 51 : 01 :  
0000 52 :  
0000 53 : 02 Gary Fowler 22-May-1979  
0000 54 : Remove FOP from \$FAB so new output file will be created if  
0000 55 : SYSS\$OUTPUT is reassigned to a file that already exists.  
0000 56 :  
0000 57 : 03 Jim Teague

0000 58 ;      Changed W^ references to L^ references.  
0000 59 ;  
0000 60 ;--

```

0000 62 .SBTTL DECLARATIONS
0000 63
0000 64
0000 65 : INCLUDE FILES:
0000 66 :   SRMSDEF
0000 67
0000 68
0000 69 : MACROS:
0000 70 :
0000 71
0000 72
0000 73
0000 74 : EQUATED SYMBOLS:
0000 75
0000 76
0000 77 : define structure of a message table entry
0000 78 :
0000 79
0000 80 $DEFINI MSG
0000 81 $DEF   MSG_Q_TEXT:           ; descriptor to message text
0000 82   .BLRQ 1
0008 83 $DEF   MSG_B_CODE:          ; code associated with message
0008 84   .BLRB 1
0009 85 $DEF   MSG_B_CONTIN:        ; continuation flag
0009 86   .BLRB 1
000A 87 $DEF   MSG_B_PARAM:         ; count of associated FAO parameters
000A 88   .BLRB 1
0008 89   .BLKB 1                 ; (spare)
000C 90 $DEF   MSG_K_LENGTH:        ; length of message table entry
000C 91
000C 92 $DEFEND MSG
0000 93
0000 94
0000 95 : define shared messages for open/write errors
0000 96
0007 97 $SHR_MSGDEF   SHOW, 120, LOCAL,-      ; make it a SHOW error
0000 98   <<OPENOUT,ERROR>,-      ; error opening file
0000 99   <WRITEERR,ERROR>>      ; error writing to file
0000 100
0000 101
0000 102 : OWN STORAGE:
0000 103 :
0000 104
0000 105 .PSECT SHOW$RWDATA    LONG, RD, WRT, NOEXE
0000 106
0000 107 OUTPUT_DNA:           ; FILE NAME STRING
0000 108   .ASCII  /SYS$OUTPUT:/
0008 109 OUTPUT_DNA_LEN = .OUTPUT_DNA
0008 110   ALIGN LONG
000C 111 OUTPUT_FAB:          ; ALLOCATE FILE ACCESS BLOCK
000C 112   $FAB   FAC=PUT,-      ; FOR OUTPUT
000C 113   DNA=OUTPUT_DNA,-
000C 114   DNS=OUTPUT_DNA_LEN,-
000C 115   NAM=OUTPUT_NAM,-
000C 116   RAT=CR               ; PROVIDE A NAME BLOCK
000C 117
000C 118 OUTPUT_RAB:          ; APPEND A CARRIAGE RETURN

```

3A 54 55 50 54 55 4F 24 53 59 53 00000008

005C	119	SRAB	FAB=OUTPUT_FAB	; AND RECORD ACCESS BLOCK			
00A0	120	OUTPUT_NAM:					
00A0	121	SNAME	ESA=OUT_ESA,-	; EXPANDED NAME			
00A0	122		ESS=NAMSC_MAXRSS,-				
00A0	123		RSA=OUT_RSA,-				
00A0	124		RSS=NAMSC_MAXRSS	; RESULTANT NAME			
0100	125	OUT_RSA:					
000001FF	0100	126	.BLKB	NAMSC_MAXRSS	; RESERVE SPACE FOR RESULTANT STRING		
000002FE	01FF	127	OUT_ESA:	.BLKB	NAMSC_MAXRSS	; RESERVE SPACE FOR EXPANDED STRING	
00000302	02FE	128		RMS_STATUS:	.BLKB	NAMSC_MAXRSS	; RESERVE LONGWORD FOR RMS STATUS CO
00000306	0302	129		OUTPUT_LENGTH:	.BLKL	1	
00000306	0302	130			.BLKL	1	
00000100	0306	131		SHOWSGQ_OUT_DSC::			
0000030E	030A	132			.LONG	OUT_BUFF_LENGTH	; BUILD DESCRIPTOR FOR OUTPUT BUFFE
0000040E	030E	133			.LONG	OUTPUT_BUFFER	
00000100	040E	134		OUTPUT_BUFFER:	.BLKB	256	
		135					; ALLOCATE OUTPUT BUFFER
		136					
		137					
		138		OUT_BUFF_LENGTH =.-OUTPUT_BUFFER			

```

040E 140 .SBTTL SHOW$PRINT_MSG - PRINT MESSAGE ROUTINE
040E 141
040E 142 ++
040E 143 : FUNCTIONAL DESCRIPTION:
040E 144 : THIS ROUTINE FORMATS ALL MESSAGES AND PRINTS THEM ON SYSSOUTPUT:
040E 145 : OR SY$ERROR DEPENDING ON THE CODE ASSOCIATED WITH THE MESSAGE.
040E 146 : ( SEE DESCRIPTION OF MACRO SHOW_DEFMSG FOR FORMAT OF MESSAGE TABLE)
040E 147
040E 148 : CALLING SEQUENCE:
040E 149
040E 150 :     PUSHL #SHOW$ <MESSAGE MNEMONIC>
040E 151 :     PUSHAL ARGLIST
040E 152 :     CALLS #2,SHOW$PRINT_MSG
040E 153
040E 154 : INPUT PARAMETERS:
040E 155
040E 156 :     4(AP)= MESSAGE IDENTIFICATION NUMBER
040E 157 :     8(AP)= POINTER TO ARGUMENT LIST FOR $FAOL
040E 158
040E 159 : OUTPUT PARAMETERS:
040E 160
040E 161 :     NONE
040E 162
040E 163 : IMPLICIT INPUT PARAMETERS:
040E 164
040E 165 :     NONE
040E 166
040E 167 : IMPLICIT OUTPUT PARAMETERS:
040E 168
040E 169 :     CALLS ROUTINE SHOW_PRINT_LINE
040E 170
040E 171 : COMPLETION CODES:
040E 172
040E 173 :     NONE
040E 174
040E 175 : SIDE EFFECTS:
040E 176
040E 177 :     NONE
040E 178 :--+
040E 179
00000000 .80 .PSECT SHOW$CODE BYTE, RD, NOWRT, EXE
0000 180
0000 181
0C00 0000 182 .ENTRY SHOW$PRINT_MSG, ^M<R10, R11>
0002 183
0002 184
0002 185 : initialize
0002 186
0002 187
0002 188 : SB 0C 08 AC 01 BB 0002 188 PUSHR #^M<R0>
0004 189 : 0C00 0000 0009 189 MUL3 8(AP), #MSG_K_LENGTH, R11 ; save status code
0009 190 : 0000 0000 0009 190 MOVL 4(AP), R10 ; CALCULATE OFFSET INTO MESSAGE TABLE
0000 191 : 0000 0000 000D 191 MOVL 4(AP), R10 ; POINTER TO FAO PARAMETER LIST
000D 192
000D 193
000D 194 : 0000 0000 000D 194 : format a message line
000D 195
000D 196

```

```

000D 197
000D 198 10$:
000D 199      $FAOL_S      - : FORMAT MESSAGE INTO OUTPUT BUFFER
000D 200      CTRSTR=L^SHOWSA_MSGTXT(R11), - : FAO CONTROL STRING
000D 201      OUTLEN=L^OUTPUT_LENGTH, - : WORD TO RECEIVE ACTUAL LEN
000D 202      OUTBUF=L^SHOW$G_OUT_DSC, - : OUTPUT BUFFER DESCRIPTOR
000D 203      PRMLST=(R10)      ; PARAMETER LIST
28 50  E9 0028 204      BLBC  R0,99$      ; branch on error
0028 205
0028 206
0028 207      : print formatted line
0028 208
0028 209
0028 210
030E'CF 0028 211      PUSHAL W^OUTPUT_BUFFER      ; ADDRESS OF OUTPUT MESSAGE STRING
0302'CF 002F 212      PUSHL  W^OUTPUT_LENGTH      ; RESULTANT LENGTH OF OUTPUT MESSAGE
0054'CF 02  FB 0033 213      CALLS  #2,W^SHOW_PRINT_LINE      ; PRINT LINE ON SYSSOUTPUT:
18 50  E9 0038 214      BLBC  R0,99$      ; branch on error
0038 215
0038 216      : get next line of message
0038 217
0038 218
0038 219
0038 220
OF 00000015'EB 0038 221      BLBC  L^SHOWSA_MSGTXT+MSG_K_LENGTH+MSG_B_CONTIN(R11),90$      ; NO CONTINUATION
50 0000000A'EB 9A 0042 222      MOVZBL L^SHOWSA_MSGTXT+MSG_B_PARAM(R11),R0
5A 50  C0 0049 223      0042
5B 0C  C0 004C 224      0049      : SKIP FAO PARAMETERS ALREADY PROCESSED
BC 11  004F 225      ADDL2  R0,R10      ; UPDATE POINTER TO PARAMETER LIST
0051 226      ADDL2  #MSG_K_LENGTH,R11      ; SKIP TO NEXT MESSAGE ENTRY
0051 227      BRB   10$      ; AND PROCESS NEXT LINE OF MESSAGE
0051 228
0051 229
0051 230      : exits
0051 231
0051 232
0051 233 90$:
01  BA 0051 234      POPR  #^M<R0>      ; restore return code
04  0053 235 99$:      RET

```

0054 237 .SBTTL SHOW\_PRINT\_LINE - PRINT LINE ROUTINE  
0054 238  
0054 239 :++  
0054 240 : FUNCTIONAL DESCRIPTION:  
0054 241  
0054 242 : THIS ROUTINE PRINTS A LINE ON DEVICE SYSSOUTPUT  
0054 243  
0054 244 : CALLING SEQUENCE:  
0054 245  
0054 246 : PUSHAL OUT\_BUFFER  
0054 247 : PUSHL OUT\_LENGTH  
0054 248 : CALLS #2,SHOW\_PRINT\_LINE  
0054 249  
0054 250 : WHERE: OUT\_LENGTH = LENGTH OF CHARACTER STRING TO PRINT  
0054 251 : OUT\_BUFFER = ADDRESS OF STRING TO PRINT  
0054 252  
0054 253 : A CR/LF IS AUTOMATICALLY APPENDED FOR EACH CALL  
0054 254  
0054 255 : NOTE:  
0054 256 : IT IS HIGHLY RECOMMENDED TO USE THE COMMON LINE BUFFER PROVIDED  
0054 257 : THE DESCRIPTOR OF WHICH IS ADDRESSED BY GLOBAL SYMBOL:  
0054 258 : SHOWSG0\_OUT\_DSC  
0054 259  
0054 260  
0054 261  
0054 262 : INPUT PARAMETERS:  
0054 263  
0054 264 : OUT\_BUFFER  
0054 265 : OUT\_LENGTH  
0054 266  
0054 267 : IMPLICIT INPUTS:  
0054 268  
0054 269 : NONE  
0054 270  
0054 271 : OUTPUT PARAMETERS:  
0054 272  
0054 273 : NONE  
0054 274  
0054 275 : IMPLICIT OUTPUTS:  
0054 276  
0054 277 : LINE IS PRINTED ON SYSSOUTPUT:  
0054 278  
0054 279 : COMPLETION CODES:  
0054 280  
0054 281 : RMS COMPLETION CODES  
0054 282  
0054 283 : SIDE EFFECTS:  
0054 284  
0054 285  
0054 286 : OPENS AND CONNECTS SYSSOUTPUT: IF NECESSARY  
0054 287  
0054 288 :--  
0054 289  
00000054 290 .PSECT SHOW\$CODE BYTE, RD, NOWRT, EXE  
0054 291  
000C 0054 292 .ENTRY SHOW\_PRINT\_LINE, ^M<R2, R3>  
0056 293

```

0056 294
0056 295 : open SYSSOUTPUT: if not opened
0056 296 :
0056 297 :
      005E'CF  B5 0056 298      TSTW  W^RABSW_ISI+OUTPUT_RAB : HAS OUTPUT ALREADY BEEN OPENED ?
      23 12 005A 299      BNEQ  10$ : YES
      005C 300      MOVL  #SHOWS_OPENOUT,R2 : ASSUME ERROR OPENING
      0063 301      SCREATE FAB=W^OUTPUT_FAB : NO, OPEN IT
      30 50  E9 006E 302      BLBC  R0,100$ : BRANCH ON ERROR
      22 50  E9 0071 303      SCONNECT RAB=W^OUTPUT_RAB : AND CONNECT
      007C 304      BLBC  R0,100$ : branch on error
      007F 305
      007F 306 : print line on SYSSOUTPUT:
      007F 307
      007F 308
      007F 309
      007F 310 10$:
      0084'CF  08 AC  DD 007F 311      MOVL  8(AP),W^OUTPUT_RAB+RABSL_RBF : INSERT OUTPUT BUFFER ADDRESS
      007E'CF  04 AC  B0 0085 312      MOVW  4(AP),W^OUTPUT_RAB+RABSW_RSZ : INSERT OUTPUT BUFFER LENGTH
      52 007810D2 8F  DD 0088 313      MOVL  #SHOWS_WRITEERR,R2 : ASSUME ERROR WRITING
      01 50  E9 0092 314      SPUT  RAB=W^OUTPUT_RAB : ISSUE RMS CALL TO PUT LINE
      009D 315      BLBC  R0,100$ : BRANCH IF ERROR
      00A0 316
      00A0 317
      00A0 318 : exit
      00A0 319
      00A0 320 :
      00A0 321 :
      00A0 322 90$:
      04 00A0 323      RET : RETURN
      00A1 324
      00A1 325 :
      00A1 326 : if an error occurred doing I/O, signal it here and stop
      00A1 327 :
      00A1 328 :
      00A1 329 100$:
      50  DD 00A1 330      PUSHL  R0 : PUSH ERROR STATUS
      00A3 331 :
      00A3 332 : check for non-zero RSL. If no resultant name string, try the
      00A3 333 : expanded name string. If both fail, simply use SYSSOUTPUT
      00A3 334 :
      00000306'EF 000000A3'EF 9A 00A3 335      MOVZBL  OUTPUT_NAM+NAMSB_RSL,SHOW$GQ_OUT_DSC
      0000030A'EF 00000100'EF 0D 13 00AE 336      BEQL  110$ : 110$:
      0000030A'EF 00000100'EF 2C 11 008B 337      MOVAL  OUT_RSA,SHOW$GQ_OUT_DSC+4
      0000030A'EF 000001FF'EF 0D 13 00C8 338      BRB   130$ :
      00000306'EF 000000AB'EF 9A 00BD 339 110$:
      0000030A'EF 000001FF'EF 12 11 00D5 340      MOVZBL  OUTPUT_NAM+NAMSB_ESL,SHOW$GQ_OUT_DSC
      00000306'EF 000000AB'EF 0D 13 00C8 341      BEQL  120$ : 120$:
      0000030A'EF 000001FF'EF 12 11 00D5 342      MOVAL  OUT_ESA,SHOW$GQ_OUT_DSC+4
      0000030A'EF 00000306'EF 0B  DD 00D7 343      BRB   130$ :
      0000030A'EF 00000000'EF 0D  DE 00DE 344 120$:
      00000306'EF 00000000'EF 0D  DE 00E9 345      MOVL  #OUTPUT_DNA_LEN,SHOW$GQ_OUT_DSC
      0000030A'EF 00000306'EF 01  DD 00E9 346      MOVAL  OUTPUT_DNA,SHOW$GQ_OUT_DSC+4
      00000306'EF 00000306'EF 01  DD 00E9 347 130$:
      00000306'EF 00000306'EF 01  DD 00F1 348      PUSHAL SHOW$GQ_OUT_DSC : PUSH OUTPUT DESCRIPTOR
      00000306'EF 00000306'EF 02  DD 00F1 349      PUSHL  #1 : PUSH ERROR MESSAGE
      00000306'EF 00000306'EF 02  DD 00F1 350

```

SHOW\$MSG\_UTIL  
V04-000

M 7  
- MESSAGE PRINTING UTILITIES 15-SEP-1984 23:45:26 VAX/VMS Macro V04-00  
SHOW\_PRINT\_LINE - PRINT LINE ROUTINE 4-SEP-1984 23:22:01 [CLIUTL.SRC]SHOMSGUTL.MAR;1 Page 9  
(4)

00000000'GF 04 FB 00F3 351  
00FA 352 CALLS #4,G^LIB\$STOP ; SIGNAL AND STOP  
.END

\$\$TAB	= 000000A0	R	02	SHOWS_OPENOUT	= 007810A2
\$\$TABEND	= 0000100	R	02	SHOWS_WRITEERR	= 007810D2
\$\$TMP	= 00000000			SHOW PRINT LINE	00000054 RG 03
\$\$TMP1	= 00000001			SHRSR SHRDEF	= 00000001
\$\$TMP2	= 000000CF			SHRS OPENOUT	= 000010A0
SSGBL	= 00000000			SHRS WRITEERR	= 000010D0
FABSC_BID	= 00000003			SYSSCONNECT	***** GX 03
FABSC_BLN	= 00000050			SYSSCREATE	***** GX 03
FABSC_SEQ	= 00000000			SYSSFAOL	***** GX 03
FABSC_VAR	= 00000002			SYSSPUT	***** GX 03
FABSL_ALQ	= 00000010				
FABSL_FOP	= 00000004				
FABSV_CHAN_MODE	= 00000002				
FABSV_CR	= 00000001				
FABSV_FILE_MODE	= 00000004				
FABSV_LNM_MODE	= 00000000				
FABSV_PUT	= 00000000				
FABSW_GBC	= 00000048				
LIBSTOP	*****	X	03		
MSG_B_CODE	00000008	G			
MSG_B_CONTIN	00000009	G			
MSG_B_PARAM	0000000A	G			
MSG_K_LENGTH	0000000C	G			
MSG_Q_TEXT	0000000C	G			
NAMSB_ESL	= 0000000B				
NAMSB_ESS	= 0000000A				
NAMSB_NOP	= 00000008				
NAMSB_RSL	= 00000003				
NAMSB_RSS	= 00000002				
NAMSC_BID	= 00000002				
NAMSC_BLN	= 00000060				
NAMSC_MAXRSS	= 000000FF				
NAMSL_ESA	= 0000000C				
NAMSL_RSA	= 00000004				
OUTPUT_BUFFER	0000030E	R	02		
OUTPUT_DNA	00000000	R	02		
OUTPUT_DNA_LEN	= 00000008				
OUTPUT_FAB	0000000C	R	02		
OUTPUT_LENGTH	00000302	R	02		
OUTPUT_NAM	000000A0	R	02		
OUTPUT_RAB	0000005C	R	02		
OUT_BUFF_LENGTH	= 00000100				
OUT_ESA	000001FF	R	02		
OUT_RSA	00000100	R	02		
RABSB_RAC	= 0000001E				
RABSC_BID	= 00000001				
RABSC_BLN	= 00000044				
RABSC_SEQ	= 00000000				
RABSL_CTX	= 00000018				
RABSL_RBF	= 00000028				
RABSL_ROP	= 00000004				
RABSW_ISI	= 00000002				
RABSW_RSZ	= 00000022				
RMS_STATUS	000002FE	R	02		
SHOWSA_MSGTXT	*****	X	03		
SHOWSG0_OUT_DSC	00000306	RG	02		
SHOWSPRINT_MSG	00000000	RG	03		

```
+-----+
! Psect synopsis !
+-----+
```

## PSECT name

	Allocation	PSECT No.	Attributes												
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE		
\$ABSS	0000000C ( 12.)	01 ( 1.)	NOPIC	USR	CON	ABS	LCL	NOSHR	EXE	RD	WRT	NOVEC	BYTE		
SHOW\$RWDATA	0000040E ( 1038.)	02 ( 2.)	NOPIC	USR	CON	REL	LCL	NOSHR	NOEXE	RD	WRT	NOVEC	LONG		
SHOW\$CODE	000000FA ( 250.)	03 ( 3.)	NOPIC	USR	CON	REL	LCL	NOSHR	EXE	RD	NOWRT	NOVEC	BYTE		

```
+-----+
! Performance indicators !
+-----+
```

## Phase

Phase	Page faults	CPU Time	Elapsed Time
Initialization	10	00:00:00.06	00:00:01.10
Command processing	83	00:00:00.89	00:00:07.17
Pass 1	262	00:00:08.71	00:00:32.97
Symbol table sort	0	00:00:00.94	00:00:03.20
Pass 2	72	00:00:01.62	00:00:05.92
Symbol table output	8	00:00:00.09	00:00:00.49
Psect synopsis output	3	00:00:00.03	00:00:00.09
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	440	00:00:12.35	00:00:50.95

The working set limit was 1200 pages.

44030 bytes (86 pages) of virtual memory were used to buffer the intermediate code.

There were 40 pages of symbol table space allocated to hold 820 non-local and 9 local symbols.

352 source lines were read in Pass 1, producing 21 object records in Pass 2.

32 pages of virtual memory were used to define 25 macros.

```
+-----+
! Macro library statistics !
+-----+
```

## Macro Library name

Macro Library name	Macros defined
\$255\$DUA28:[CLIUTL.OBJ]CLIUTL.MLB;1	0
\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	21
TOTALS (all libraries)	21

1151 GETS were required to define 21 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:\$HOMSGUTL/OBJ=OBJ\$:\$HOMSGUTL MSRC\$:\$HOMSGUTL/UPDATE=(ENH\$:\$HOMSGUTL)+EXECMLS/LIB+LIB\$:\$CLIUTL/LIB

0056 AH-BT13A-SE  
VAX/VMS V4.0

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